

PATENT ABSTRACTS OF JAPAN

(11)Publication number : **57-023636**

(43)Date of publication of application : **06.02.1982**

(51)Int.Cl.

C08J 9/22
// B29D 27/00

(21)Application number : **55-087120**

(71)Applicant : **INOUE MTP CO LTD**
OKAZAKI URETHANE KOGYO KK

(22)Date of filing : **26.06.1980**

(72)Inventor : **HATTORI GENJIRO**
KOKUBO YUKIO

(54) PREPARATION OF HEAT INSULATING MATERIAL WITH WASTE MATERIAL OF RIGID POLYURETHANE ROAM

(57)Abstract:

PURPOSE: To obtain the titled heat insulating material, having a strength not inferior to that of a urethane foam, and usable for building, by mixing a prepolymer containing free isocyanate with a crushed waste material of rigid polyurethane foam, etc., and reacting and curing the prepolymer with superheated steam.

CONSTITUTION: A waste material of rigid polyurethane foam is pulverized or cut to a chiplike waste material having a diameter of about 20mm or less. 100parts by weight resultant material is then mixed with 5W30parts by weight solution prepared by adding a solvent, e.g. an aromatic hydrocarbon, to a prepolymer for a rigid polyurethane containing 1W48% free isocyanate obtained by reacting 100parts by weight polyol with 50W300parts by weight isocyanate to reduce the viscosity of the prepolymer as a binder by the spray coating, etc. The resultant mixture is then compressed in a mold, reacted and cured by injecting superheated steam of vapor pressure 0.6W7.5kg/cm² for 30sec-10min thereinto. Hot air at 60W150°C is then blown on the cured material for 10W30min to evaporate the absorbed water and dry the cured material.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office

PAT-NO: JP357023636A
DOCUMENT- JP 57023636 A
IDENTIFIER:
TITLE: PREPARATION OF HEAT INSULATING MATERIAL WITH WASTE
MATERIAL OF RIGID POLYURETHANE ROAM
PUBN-DATE: February 6, 1982

INVENTOR-INFORMATION:

NAME	COUNTRY
HATTORI, GENJIRO	
KOKUBO, YUKIO	

ASSIGNEE-INFORMATION:

NAME	COUNTRY
INOUE MTP CO LTD	N/A
OKAZAKI URETHANE KOGYO KKN/A	

APPL-NO: JP55087120
APPL-DATE: June 26, 1980

INT-CL (IPC): C08J009/22 , B29D027/00

US-CL-CURRENT: 525/458

ABSTRACT:

PURPOSE: To obtain the titled heat insulating material, having a strength not inferior to that of a urethane foam, and usable for building, by mixing a prepolymer containing free isocyanate with a crushed waste material of rigid polyurethane foam, etc., and reacting and curing the prepolymer with superheated steam.

CONSTITUTION: A waste material of rigid polyurethane foam is pulverized or cut to a chiplike waste material having a diameter of about 20mm ϕ ; or less. 100prs.wt resultant material is then mixed with 5~30pts.wt solution prepared by adding a solvent, e.g. an aromatic hydrocarbon, to a prepolymer for a rigid polyurethane containing 1~48% free isocyanate obtained by reacting 100pts.wt polyol with 50~300pts.wt isocyanate to reduce the viscosity of the prepolymer as a binder by the spray coating, etc. The resultant mixture is then compressed in a mold, reacted and cured by injecting superheated steam of vapor pressure 0.6~7.5kg/cm² for 30sec-10min thereinto. Hot air at 60~150°C is then blown on the cured material for 10~30min to evaporate the absorbed water and dry the cured

material.

COPYRIGHT: (C) 1982, JPO&Japio